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intellectual reason to study classical mechanics: this is the example par excellence of a theory which explains an incredible multitude of phenomena on the basis of a minimal number of simple principles.

Classical Mechanics: a Critical Introduction - Astronomy

sume that reader is familiar with them. Consider a point particle of mass m . Choosing some fixed point O (origin) in the space, we can describe motion of the particle by position vector (radius vector) r . Position vector is time-dependent if the body is moving with respect to the origin O , which is mathematically denoted

by $r = r(t)$.

Classical Mechanics and Dynamical Systems

Classical mechanics, narrowly defined, is the investigation of the motion of systems of particles in Euclidean three-dimensional space, under the influence of specified force laws, with the motion's evolution determined

Classical Mechanics - Rutgers Physics & Astronomy

Classical mechanics is a theory useful for the study of the motion of non-quantum mechanical, low-energy particles in weak gravitational fields. Also, it has been extended into the complex domain where complex classical mechanics exhibits behaviors very similar to quantum mechanics.

Classical mechanics - Wikipedia

Lecture Notes on Classical Mechanics (A Work in Progress) Daniel Arovas Department of Physics University of California, San Diego May 8, 2013

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